

L12 ANSWER 1 OF 7 USPATFULL on STN  
 AN 2004:121364 USPATFULL  
 TI Process for producing aliphatic C3-C10-alcohols from **high boilers**  
 IN Zgorzelski, Wolfgang, Oberhausen, GERMANY, FEDERAL REPUBLIC OF  
 Glick, Wilhelm, Duisburg, GERMANY, FEDERAL REPUBLIC OF  
 PI US 2004092780 A1 20040513  
 AI US 2003-701416 A1 20031030 (10)  
 PRAI DE 2002-10252173 20021109  
 DT Utility  
 FS APPLICATION  
 LREP MUSERLIAN AND LUCAS AND MERCANTI, LLP, 475 PARK AVENUE SOUTH, NEW YORK, NY, 10016  
 CLMN Number of Claims: 8  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN.CNT 256  
 AB The present invention relates to a process for producing aliphatic C.sub.3-C.sub.10-alcohols, in particular 2-ethylhexanol, from **high boilers** by thermal treatment in the presence of an **alkali** metal compound and subsequent **hydrogenation** of the volatile products.

L12 ANSWER 2 OF 7 USPATFULL on STN  
 AN 2004:8007 USPATFULL  
 TI Process for the preparation of 3, 3-dimethylbutanal  
 IN Ebner, Jerry R., St. Charles, MO, UNITED STATES  
 Guo, Zhi, Chicago, IL, UNITED STATES  
 Hershman, Arnold, St. Louis, MO, UNITED STATES  
 Klein, Loraine M., Streamwood, IL, UNITED STATES  
 McGhee, William D., Fenton, MO, UNITED STATES  
 Paster, Mark D., Chesterfield, MO, UNITED STATES  
 Prakash, Indra, Hoffman Estates, IL, UNITED STATES  
 PA The Nutrasweet Company (U.S. corporation)  
 PI US 2004006247 A1 20040108  
 AI US 2003-400558 A1 20030327 (10)  
 RLI Division of Ser. No. US 2000-575107, filed on 19 May 2000, GRANTED, Pat. No. US 6573409  
 PRAI US 1999-142122P 19990702 (60)  
 DT Utility  
 FS APPLICATION  
 LREP SENNIGER POWERS LEAVITT AND ROEDEL, ONE METROPOLITAN SQUARE, 16TH FLOOR, ST LOUIS, MO, 63102  
 CLMN Number of Claims: 164  
 ECL Exemplary Claim: 1  
 DRWN 10 Drawing Page(s)  
 LN.CNT 4144

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB 3,3-Dimethylbutanal is prepared from 3,3-dimethylbutanol. Intermediate 3,3-dimethylbutanol is obtained by reacting ethylene, isopropylene and a mineral acid to produce a 3,3-dimethylbutyl ester which is hydrolyzed to the alcohol. The hydrolysis step is effectively carried out by reactive **distillation**. Alternatively, 3,3-dimethylbutanal is prepared from 3,3-dimethylbutanol obtained by reduction of the corresponding carboxylic acid or 1,2-epoxy-3,3-dimethylbutane, or by hydrolysis of 1-halo-3,3-dimethylbutane. Fixed bed gas phase and stirred tank liquid phase processes are provided for converting 3,3-dimethylbutanol to 3,3-dimethylbutanal by catalytic dehydrogenation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 3 OF 7 USPATFULL on STN

AN 2003:325272 USPATFULL  
TI Process for the preparation of 3, 3-dimethylbutanal  
IN Ebner, Jerry R., St. Charles, MO, UNITED STATES  
Guo, Zhi, Chicago, IL, UNITED STATES  
Hershman, Arnold, St. Louis, MO, UNITED STATES  
Klein, Loraine M., Streamwood, IL, UNITED STATES  
McGhee, William D., Fenton, MO, UNITED STATES  
Paster, Mark D., Chesterfield, MO, UNITED STATES  
Prakash, Indra, Hoffman Estates, IL, UNITED STATES  
PA The Nutrasweet Company (U.S. corporation)  
PI US 2003229254 A1 20031211  
AI US 2003-447815 A1 20030529 (10)  
RLI Continuation of Ser. No. US 2003-400558, filed on 27 Mar 2003, PENDING  
Continuation of Ser. No. US 2000-575107, filed on 19 May 2000, GRANTED,  
Pat. No. US 6573409  
PRAI US 1999-142122P 19990702 (60)  
DT Utility  
FS APPLICATION  
LREP SENNIGER POWERS LEAVITT AND ROEDEL, ONE METROPOLITAN SQUARE, 16TH FLOOR,  
ST LOUIS, MO, 63102  
CLMN Number of Claims: 164  
ECL Exemplary Claim: 1  
DRWN 10 Drawing Page(s)  
LN.CNT 4156

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB 3,3-Dimethylbutanal is prepared from 3,3-dimethylbutanol. Intermediate 3,3-dimethylbutanol is obtained by reacting ethylene, isopropylene and a mineral acid to produce a 3,3-dimethylbutyl ester which is hydrolyzed to the alcohol. The hydrolysis step is effectively carried out by reactive distillation. Alternatively, 3,3-dimethylbutanal is prepared from 3,3-dimethylbutanol obtained by reduction of the corresponding carboxylic acid or 1,2-epoxy-3,3-dimethylbutane, or by hydrolysis of 1-halo-3,3-dimethylbutane. Fixed bed gas phase and stirred tank liquid phase processes are provided for converting 3,3-dimethylbutanol to 3,3-dimethylbutanal by catalytic dehydrogenation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 4 OF 7 USPATFULL on STN  
AN 2003:166857 USPATFULL  
TI Method for producing alkenyl ethers  
IN Boettcher, Arnd, Frankenthal, GERMANY, FEDERAL REPUBLIC OF  
Pinkos, Rolf, Bad Durkheim, GERMANY, FEDERAL REPUBLIC OF  
Lorenz, Rudolf Erich, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF  
PI US 2003114715 A1 20030619  
AI US 2002-240683 A1 20021003 (10)  
WO 2001-EP3588 20010329  
PRAI DE 2000-10017222 20000406  
DT Utility  
FS APPLICATION  
LREP KEIL & WEINKAUF, 1350 CONNECTICUT AVENUE, N.W., WASHINGTON, DC, 20036  
CLMN Number of Claims: 9  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 638

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Alkenyl ethers are prepared by reacting the corresponding alcohols or phenols with acetylenes in the liquid phase in the presence of basic alkali metal compounds and a cocatalyst comprising compounds of the formula (Ia) and/or (Ib)

R.sup.10--(CH.sub.2CH.sub.2CH.sub.2CH.sub.2O).sub.n--H (Ia)

R.sup.10--(CH.sub.2CH.sub.2CH.sub.2CH.sub.2O).sub.n--H.sup.2, (Ia)

where R.sup.1, R.sup.2 are, independently of one another,  
C.sub.1-C.sub.6-alkyl or C.sub.2-C.sub.6-alkenyl, or R.sup.1 and R.sup.2  
together form a butyl unit and n is 1, 2, 3, 4 or 5.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 5 OF 7 USPATFULL on STN  
AN 2003:149063 USPATFULL  
TI Process for the preparation of 3,3-dimethylbutanal  
IN Ebner, Jerry R., St. Charles, MO, United States  
Guo, Zhi, Chicago, IL, United States  
Hershman, Arnold, St. Louis, MO, United States  
Klein, Loraine M., Streamwood, IL, United States  
McGhee, William D., Fenton, MO, United States  
Paster, Mark D., Chesterfield, MO, United States  
Prakash, Indra, Hoffman Estates, IL, United States  
PA The Nutrasweet Company, Mt. Prospect, IL, United States (U.S.  
corporation)  
PI US 6573409 B1 20030603  
AI US 2000-575107 20000519 (9)  
PRAI US 1999-142122P 19990702 (60)  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Barts, Samuel; Assistant Examiner: Witherspoon,  
Sikarl A.  
LREP Senniger, Powers, Leavitt & Roedel  
CLMN Number of Claims: 104  
ECL Exemplary Claim: 1  
DRWN 10 Drawing Figure(s); 10 Drawing Page(s)  
LN.CNT 3747

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB 3,3-Dimethylbutanal is prepared from 3,3-dimethylbutanol. Intermediate  
3,3-dimethylbutanol is obtained by reacting ethylene, isopropylene and  
sulfuric acid to produce a 3,3-dimethylbutyl ester which is hydrolyzed  
to the alcohol. The hydrolysis step is effectively carried out by  
reactive **distillation**. Alternatively, 3,3-dimethylbutanal is  
prepared from 3,3-dimethylbutanol obtained by reduction of the  
corresponding carboxylic acid or 1,2-epoxy-3,3-dimethylbutane, or by  
hydrolysis of 1-halo-3,3-dimethylbutane. Fixed bed gas phase and stirred  
tank liquid phase processes are provided for converting  
3,3-dimethylbutanol to 3,3-dimethylbutanal by catalytic dehydrogenation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 6 OF 7 USPATFULL on STN  
AN 2000:120921 USPATFULL  
TI Process for the **distillation** of alcohols  
IN Zgorzelski, Wolfgang, Oberhausen, Germany, Federal Republic of  
Lappe, Peter, Dinslaken, Germany, Federal Republic of  
Schalapski, Kurt, Oberhausen, Germany, Federal Republic of  
Gick, Wilhelm, Duisburg, Germany, Federal Republic of  
PA Celanese Chemicals Europe GmbH, Germany, Federal Republic of (non-U.S.  
corporation)  
PI US 6117277 20000912  
WO 9626173 19960829  
AI US 1997-894601 19970822 (8)  
WO 1996-EP633 19960214  
19970822 PCT 371 date  
19970822 PCT 102(e) date  
PRAI DE 1995-19506280 19950223  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Manoharan, Virginia

LREP Connolly, Bove Lodge & Hutz, LLP  
CLMN Number of Claims: 19  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 201

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a process for the purification of C.sub.3  
-C.sub.10 -alcohols by **distillation**, by **distilling**  
the alcohols at 150 to 200° C. in the presence of 10 to 1000 ppm  
of **alkali** metal hydroxide.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 7 OF 7 USPATFULL on STN  
AN 86:38384 USPATFULL  
TI Detergent range aldehyde and alcohol mixtures and derivatives, and  
process therefor  
IN Forster, Denis, St. Louis, MO, United States  
Schaefer, George F., Olivette, MO, United States  
Barker, George E., St. Louis, MO, United States  
PA Monsanto Company, St. Louis, MO, United States (U.S. corporation)  
PI US 4598162 19860701  
AI US 1983-549524 19831104 (6)  
RLI Continuation-in-part of Ser. No. US 1983-499967, filed on 1 Jun 1983,  
now abandoned And a continuation-in-part of Ser. No. US 1981-272587,  
filed on 11 Jun 1981, now patented, Pat. No. US 4426542 which is a  
continuation-in-part of Ser. No. US 1981-256439, filed on 22 Apr 1981,  
now abandoned which is a continuation of Ser. No. US 1979-104517, filed  
on 17 Dec 1979, now abandoned  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Lone, Werren B.  
LREP Kennedy, Joseph D., Williams, Jr., James W.  
CLMN Number of Claims: 13  
ECL Exemplary Claim: 1  
DRWN 2 Drawing Figure(s); 2 Drawing Page(s)  
LN.CNT 2365

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel, liquid mixtures of isomeric aldehydes and alcohols are described  
in the C.sub.11 -C.sub.16 carbon range, the compounds being  
characterized by a main carbon branched at the position and moderate  
additional branching in most isomers; the aldehyde mixtures are prepared  
by an economic route from olefins involving oxo and aldol reaction with  
the reaction conducted in such a way as to give a high percentage of  
aldolable product, and preferably with a base catalyzed aldol reaction  
conducted under conditions to make high conversions attainable. The  
aldehyde mixtures can be **hydrogenated** to alcohols and  
converted to novel ethoxylates or sulfate compositions suitable for use  
as biodegradable detergents; or **hydrogenated** and oxidized to  
novel carboxylic acid compositions also suitable for detergent use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

(FILE 'HOME' ENTERED AT 13:05:51 ON 07 JUN 2004)

FILE 'CAPLUS, USPATFULL, CA, CAOLD' ENTERED AT 13:06:58 ON 07 JUN 2004

|     |                                       |
|-----|---------------------------------------|
| L1  | 1463 S HIGH BOILER                    |
| L2  | 941 S L1 AND DISTILL?                 |
| L3  | 292 S L2 AND HYDROGENAT?              |
| L4  | 0 S L3 AND KOH/G                      |
| L5  | 141 S L3 AND ALKALI                   |
| L6  | 41 S L5 AND KOH?                      |
| L7  | 29 S L6 AND COLUMN                    |
| L8  | 1 S L7 AND NEUTRALIZATION NUMBER      |
| L9  | 14 S L7 AND SODIUM HYDROXIDE          |
| L10 | 11 S L9 AND POTASSIUM HYDROXIDE       |
| L11 | 11 DUP REM L10 (0 DUPLICATES REMOVED) |
| L12 | 7 S L11 AND ?HEXANOL                  |